

Chapter 4 Review

Name: Key
(Ameena)

State the leading coefficient and the degree.

1) $f(x) = 10x^4 + 2x + 1$

leading coefficient: 10
degree: 4

2) $f(x) = -3x^5 + 2x^3 - 43$

leading coefficient: -3
degree: 5

Examine the graph.

3) Identify when $f(x)$ is increasing using interval notation

$(-1.25, .5)$

$-1.25 < x < .5$

4) Identify when $f(x)$ is decreasing using interval notation

$(-\infty, -1.25) \cup (.5, \infty)$

$x < -1.25$ or $x > .5$

5) State any absolute or local maximums

$x = .5$
local max

6) State any local or absolute minimums

$x = -1.25$
local min

7) What degree would you guess this function has?

3 - (2 turning pts)

8) If a function has a degree of n , how many turning points and zeros can it have (maximum)?

n zeros
 $n-1$ turning points

